PRECIPITATION.

The earlier portion of the month had very general and substantial rains over the greater part of the country from the Rocky Mountains eastward, although over small areas the amounts were insufficient to relieve the drought conditions that had persisted during much of the preceding month.

During the latter half of the month precipitation was very generally deficient over the eastern half of the country, particularly over the Gulf and Atlantic coast States, where drought conditions had become serious by

the end of the month.

In the far West precipitation was unusually frequent and in generous quantity over the southern Rocky Mountain and Plateau regions, particularly in Arizona, where numerous local floods were caused by the heavy run-off. In Colorado the average precipitation for the State was the greatest for August of record, and in Arizona only one preceding August in the past 25 years had a greater average. In other portions of the far West precipitation was light as usual for August.

For the month as a whole precipitation was less than usually received over the Atlantic and Gulf States from New England to Texas, the deficiency being of serious

proportions in the South Atlantic States as a whole, and in local areas of the other States. There was a considerable deficiency in Oklahoma, and portions of the Northwest likewise had considerably less rain than is usually received. On the other hand, the Ohio and Mississippi Valley States had frequent and in some cases heavy rains, and the monthly totals were well above the normal amounts, and similar conditions prevailed in Arizona, New Mexico, Colorado, Utah, and portions of the adjoining States.

In all portions of the country there were large variations in the total falls at comparatively near-by points, notably in the South and middle West where amounts ranged locally from less than 1 to more than 10 inches.

RELATIVE HUMIDITY.

In the main the atmospheric moisture as indicated by the relative humidity conformed to the precipitation conditions, the averages being less than normal in the regions of deficient precipitation, and greater where precipitation was in excess. As a rule the departures from the normal were not excessive, although in portions of the Southwest there were large variations both above and below the normal.

SEVERE LOCAL STORMS.

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A more complete statement will appear in the Annual Report of the Chief of Bureau.]

Place.	Date.	Time.	Width of path.	Loss of life.	Value of property destroyed.	Character of storm.	Remarks.	Authority.
			Yards.					Tribune (Terre Haute, Ind.).
Brazil, Ind Winfield, Kans., and vicinity.	2	P. m P. m				Electrical and rain. Hail	Damage to buildings and electric wires. Automobile tops, street lamps, sky- lights, and greenhouses demolished.	Times (Kansas City, Mo.).
Independence, Kans	4	P. m				Wind	Severe damage suffered by buildings,	Do.
Fredonia, Kans	4	P. m		<u> </u>	 	Wind and hail	crops, and telephone lines. Buildings, crops, and trees damaged; poultry killed.	Wichita Eagle (Wichita, Kans.).
El Dorado, Kans., and north	5	P. m				Wind	Heavy losses to gas and oil companies	Do.
Butler County. Port Huron, Mich. (north of). Kansas City, Mo	6 6	4.30 a. m.			\$25,000	Hail. Wind, rain, and electrical.	sustained by telephone and electric	Official U. S. Weather Bureau. Star (Kansas City, Mo.).
Lawrence, Kans Cleveland, Ohio	6 6	1	1	1		Rain. Electrical, wind, and rain.	light companies. 5.30 inches of rain; cellars ficoded Streets and cellars flooded; wires down; heavy property losses. \$25,000 damage from fires by lightning.	Do. Plain Dealer (Cleveland, Ohio).
Denton, TexAnnapolis, Md	7	P. m			25,000		Air-marine seaplane wrecked	Dallas Morning News(Dallas, Tex. Washington (D. C.) Herald. Brooklyn Daily Eagle.
New York City and vicinity Aberdeen, S. Dak	ģ	P. m		²		Wind		The Courier News (Fargo, N. Dak.
Egeland, N. Dak	10		5, 280		<u> </u>	Hail and wind		The Fargo Forum (Fargo, N. Dak.
Charleston, S. C	10 10 -10	A. m P. m P. m		i	1,200 10,000	Small tornado Wind and rain Rain	Damage slight Considerable property damage done Aside from flooded basements, little	Official U. S. Weather Bureau. Star (Kansas City, Mo.). Do.
Southern Wisconsin and northern Illinois.	19	P. m				Wind and rain	extent swept over southern Wiscon- sin and northern Illinois, causing extensive property and public utili- ties losses; crops and live stock suf- fered severely and a number of peo- ple were killed; the loss is estimated	Press (Sheboygan, Wis.); Officis U. S. Weather Bureau; Time Journal (Dubuque, Iowa); Ever ing News (Kenosha, Wis.); Journal (Chicago, Ill.).
Phoenix, Ariz., northwest of	ł		· ·	1		do	streets flooded.	Ariz.).
Phoenix, Ariz. (near)	21		-		240,000	Rain	A heavy rain over the Cave Creek watershed, near Phoenix, resulted in a flood of serious proportions in Phoenix.	Official U. S. Weather Bureau.
Fargo, N. Dak., and vicinity. Elizabethtown, Tenn	25 25					Cloudburst	. Considerable damage caused by rain Serious injury to crops over small area;	Courier News (Fargo, N. Dak.). Official U. S. Weather Bureau.
Denton, Tex	26					. Cloudburst and wind.	chickens and birds killed. Slight damage to buildings	Dallas Morning News (Dalla Tex.).
Corsicana, Tex	26 26					Rain	. Cotton slightly damaged	. Do.
Luling, Tex. Green Bay, Wis		1	1		1	Wind and rain Thunderstorm	are estimated at thousands of dollars	Official U. S. Weather Bureau.
Port Huron, Mich.(north of) Texas		P. m				. Wind and rain	Trees uprooted. Heat wave which prevailed throughout the State was broken by wind and rain storms; no severe damage was done.	Do. Dallas Morning News (Dalla Tex.).